B.S. DATA SCIENCE 2019-20

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
Fall (14 cr)	*Spring* (16 cr)	*Fall* (15 cr)	*Spring* (16 cr)	*Fall* (16 cr)	*Spring* (15 cr)	*Fall* (15 cr)	*Spring* (15 cr)

★ **CS 1410** Intro. Object Oriented Programming 4 — FA/SP	**CS 2100** Discrete Structures 3 — FA/SP	**CS 2420** Intro. Algorithms and Data Structures 4 — FA/SP	**CS 3500** Software Practice 4 — FA/SP	**DS 3190** Foundations of Data Analysis 3 — FA	**DS 5140** Data Mining 3 — SP	**DS 4800** Senior Capstone Project (Design) or **DS 4940** Undergraduate Research 3 — FA/SP	**DS 4850** Senior Capstone Project or **DS 4970** Undergraduate Thesis 3 — FA/SP
WRTG 2010 Intermediate Writing 3 — FA/SP/SU	**DS 2500** Data Wrangling 3 — SP	**Elective** Data Domain 3 — FA/SP	**Elective** Data Analysis Breath 3 — FA/SP	**CS 4150** Algorithms 3 — FA/SP	**DS 5530** Database Systems 3 — SP		
MATH 1310 Engineering Calculus I 4 — FA/SP	**MATH 1320** Engineering Calculus II 4 — FA/SP/SU	**MATH 3070** Applied Statistics I 4 — FA/SP/SU	**MATH 3080** Applied Statistics II 3 — SP	**DS 5630** Visualization for Data Science 3 — FA	**Elective** Data Analysis Breath 3 — FA/SP	**CS 5350** Machine Learning 3 — FA/SP	**Elective** Data Analysis Breath 3 — FA/SP
General Education 3 — FA/SP/SU	General Education 3 — FA/SP/SU	**MATH 2270** Linear Algebra 4 — FA/SP/SU	American Institutions 3 — FA/SP/SU	**DS 3390** Ethics in Data Science 3 — FA	**Pre-req: WRTG 2010** **WRTG 3014** or **WRTG 3015** 3 — FA/SP/SU	**Elective** Data Domain 3 — FA/SP	General Education 3 — FA/SP
	General Education 3 — FA/SP/SU		General Education 3 — FA/SP/SU	**Elective** Data Domain 4 — FA/SP	General Education (3000+) 3 — FA/SP/SU	General Education 3 — FA/SP/SU	General Education 3 — FA/SP/SU
						DV Requirement 3 — FA/SP/SU	IR Requirement (3000+) 3 — FA/SP/SU

Ready to apply to the program? Access the application link located in the Undergrad Handbook!

Grey = Pre-Major Courses
Check handbook.cs.utah.edu for application requirements and instructions

★ *Prerequisite: C- or higher in CS 1030, AP = CS-A score of 4 or higher, or a passing score on CS 1410 Proficiency Test*

Course prerequisites are located on the back of this flowchart

Caveat: Semester availability is subject to change at the discretion of the departments and does not create a binding contractual nexus or obligation between the student and the University of Utah

Total Required Credit Hours: 122